

TABLE 47

Federal obligations for research performed at higher education institutions, by detailed field of R&D: FY 2021

(Dollars in thousands)

Field	2021
All fields	37,026,661
Computer and information sciences	1,465,782
Geosciences, atmospheric sciences, and ocean sciences	1,664,581
Atmospheric science and meteorology	296,635
Geological and earth sciences	253,987
Ocean sciences and marine sciences	627,773
Other geosciences, atmospheric sciences, and ocean sciences	486,186
Life sciences	20,475,049
Agricultural sciences	168,533
Biological and biomedical sciences	11,340,905
Health sciences	6,800,734
Natural resources and conservation	12,558
Other life sciences	2,152,319
Mathematics and statistics	479,906
Physical sciences	2,412,951
Astronomy and astrophysics	80,635
Chemistry	608,381
Materials science	345,237
Physics	852,779
Other physical sciences	525,919
Psychology	2,471,457
Biological aspects	13,456
Social aspects	13,181
Other psychological sciences	2,444,820
Social sciences	789,582
Anthropology	27,715
Economics	90,106
Political science and government	8,727
Sociology, demography, and population studies	63,762
Other social sciences	599,272
Engineering	3,682,718
Aerospace, aeronautical, and astronautical engineering	125,887
Bioengineering and biomedical engineering	108,541
Chemical engineering	229,976
Civil engineering	101,364
Electrical, electronics, and communications engineering	243,921
Industrial and manufacturing engineering	55,826
Mechanical engineering	149,328
Metallurgical and materials engineering	185,740
Other engineering	2,482,135
Other fields	3,584,636
Business management and business administration	73,786
Communication and communications technologies	1,812
Education research	741,853
Humanities	5,486
Law	510
Social work	0
Visual and performing arts	0
All other fields	2,761,189

Note(s):

Because of rounding, detail may not add to total. FY 2021 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). As of volume 71 (FYs 2021–22), the fields of R&D (formerly, "fields of science and engineering") were revised for consistency with other National Center for Science and Engineering Statistics surveys; some fields were added, merged, or split, and some fields were renamed. Therefore, the data are not directly comparable with totals reported in previous years. See technical table A-3 for additional notes associated with the taxonomy changes to the fields listed in this table.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2021–22.